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Group Art Unit: 2611

Examiner: AHN, Sam K.

UNITED STATES PATENT AND TRADEMARK OFFICE

Phone: (571) 273-3044

Pages: Cover + 2 + 1 = 4

Date: February 22, 2007

From: Georgann S. Grunebach

Reg. No. 33,179

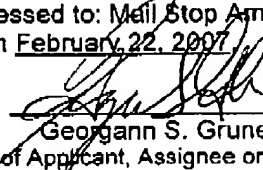
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Georgann S. Grunebach, Reg. No. 33,179
(Name of Applicant, Assignee or Registered Representative)

February 22, 2007
Date
(Date of Facsimile Transmission)

Re: Serial No. 10/519,322

Filed: December 23, 2004

Inventors: Ernest Chen et al.

For: IMPROVING HIERARCHICAL 8PSK PERFORMANCE

Attorney Docket No.: PD-202109

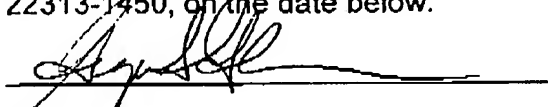
Transmitted herewith: INFORMATION DISCLOSURE STATEMENT (2 pages)
FORM PTO 1449 (1 page)

The DirectTV Group, Inc., CA/LA1/A109, P. O. Box 956, El Segundo CA 90245

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Patent
PD-202109
Customer No. 020991

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen et al. : I hereby certify that this correspondence is
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Examiner: ANH, Sam K. : Date: February 22, 2007

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. It is respectfully requested that the references be considered and made of record in the application identified above.

This statement should be considered because it is being submitted before the mailing of a first Office action on the merits under 37 C.F.R. §1.97(b)(3). Accordingly, it is submitted that no fee is due in this matter.

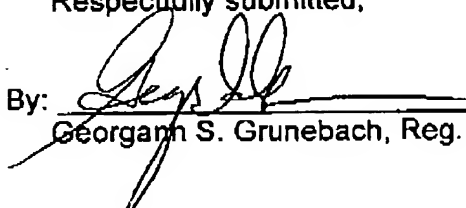
However, if it is determined that any appropriate fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

Serial No. 10/519,322.....Page 2

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

By:


Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.
CA/LA1/A109
P. O. Box 956
El Segundo, CA 90245

Telephone No. (310) 964-4615

February 22, 2007

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/519,322
		Filing Date	December 23, 2004
		First Named Inventor	Ernest Chen
		Art Unit	2611
		Examiner Name	AHN, Sam K.
Date: February 22, 2007			
Sheet 1 of 1		Attorney Docket Number	PD-202109

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-6,522,683	02-2003	Smee et al.	
		US-7,161,931	01-2007	Li et al.	
		US-6,956,841	10-2005	Stahle et al.	
		US-6,049,566	04-2000	Saunders et al.	
		US-2002/0136327	09-2002	El-Gamal et al.	
		US-7,154,958	12-2006	Dabak et al.	
		US-2003/0194022	10-2003	Hammons et al.	
		US-2004/0146014	07-2004	Hammons et al.	
		US-2002/0051435	05-2002	Giallorenzi et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.